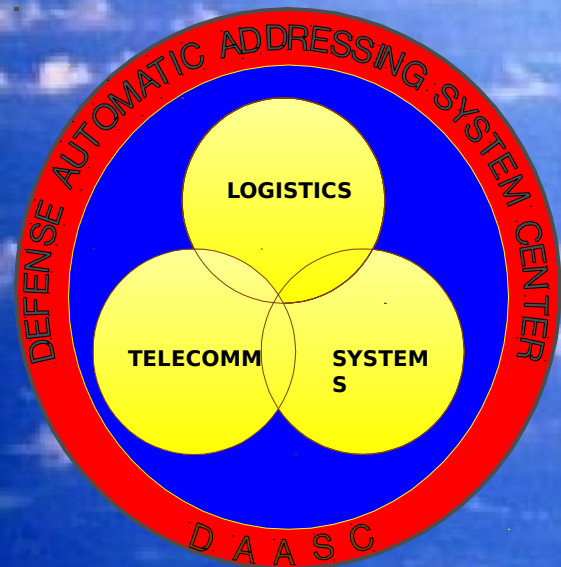# DEFENSE

LOGISTICS

AGENCY
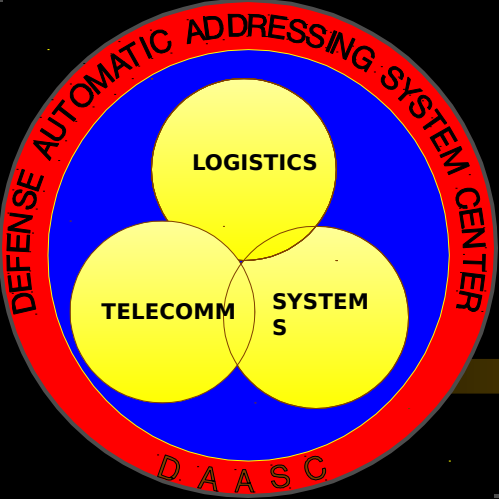
DEFENSE AUTOMATIC ADDRESSING SYSTEM CENTER

eBusiness Services Briefing

DAASC XML Translation/Processing Capabilities

Stuart D. Scott

- September

DAASC SUPPORT TO GOVERNMENTAL *e*BUSINESS

DAASC Mission:

- **Receive, edit, route, and transmit logistics transactions**

- **Provide value-added processing services for standard transactions**

- **Provide logistics informat services**

- **Serve as official repository standard DoD directories publications, and transac**

DAASC LOGISTICS TRANSACTION ROUTING:

Customers

DoD

Departments of:
- Army
- Navy
- Air Force
- Marine Corps

Defense Agencies Intelligence

DoD Dependent Schools

NATO

Foreign Military Sales Countries

Civilian

Departments of:
- Commerce
- Justice
- State

NASA	FEMA
GSA	USPS
FAA	GAO
VA	CG
US Courts	

MILS Transaction Volumes:

CY 2003
3,027,050,500+

CY 2001 3,201,850,000+

CY 2000
3,102,700,000+

193,253 Customers Worldwide

DAASC

Suppliers
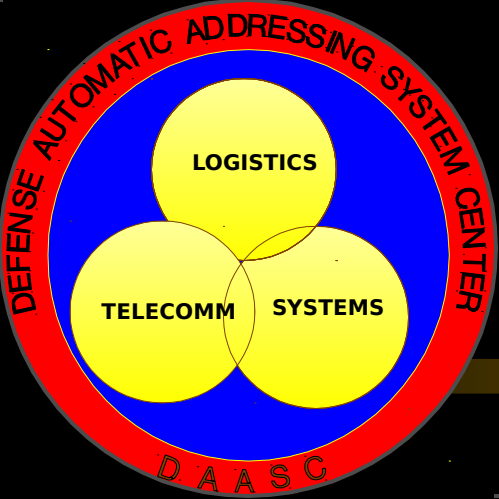
Defense Logistics Agency

Military Services

General Services Admin.

Commercial Suppliers

DAAS Transactions:

- Confirmations
- Shipping Instructions
- Requisitions, Cancellations
- Supply and Shipment Status
- Specialized Functions
  (MILS - STRIP/STRAP/STAMP/BILLS/

DAASC SUPPORT TO GOVERNMENTAL *e*BUSINESS

SERVICES BRIEFING

DoD *e*B Support Requirements

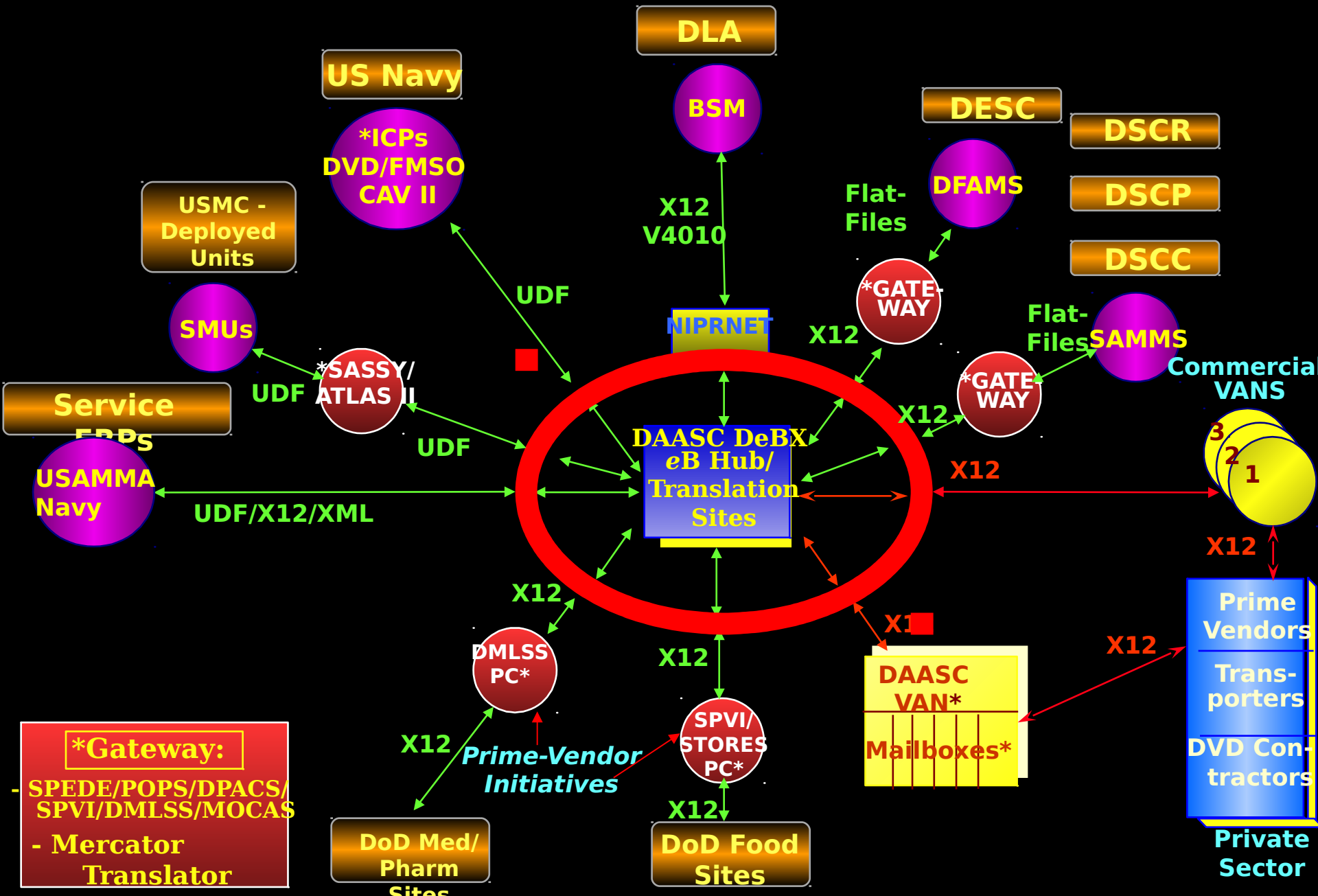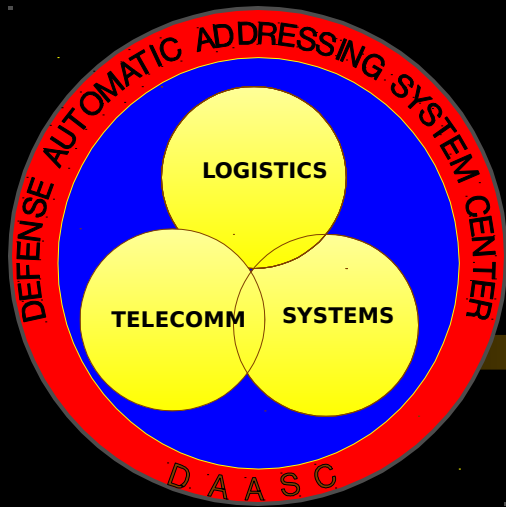- DAASC tasked in Fall of 1992 by DoD Executive Agent and requested to provide:

  - A gateway for distribution of EDI documents that would:

    - Standardize implementation and avoid duplication of effort/expense

    - Implement DoD standard for interoperability

  - Connectivity to multiple commercial value-added networks (VANs)

  - An interface between procurement activities & their vendors/transporters/ government contractors

DoD *e*B SUPPORT REQUIREMENTS:
(DAASC *e*B Implementation Architecture)

DLA

BSM

US Navy

*ICPs DVD/FMSO CAV II

DESC

DSCR

DFAMS

DSCP

USMC - Deployed Units

Flat-Files

DSCC

UDF

X12 V4010

SMUs

NIPRNET

*GATE-WAY

X12

Flat-Files

SAMMS

Commercial VANS

Service ERPs

*SASSY/ ATLAS II

UDF

UDF

*GATE-WAY

X12

3
2
1

USAMMA Navy

UDF/X12/XML

DAASC DeBX *e*B Hub/ Translation Sites

X12

X12

X12

X12

DMLSS PC*

X12

X1

Prime Vendors

X12

X12

DAASC VAN*

Trans-porters

X12

Prime-Vendor Initiatives

SPVI/ STORES PC*

Mailboxes*

DVD Con-tractors

*Gateway:
- SPEDE/POPS/DPACS/ SPVI/DMLSS/MOCAS
- Mercator Translator

DoD Med/ Pharm Sites

X12

DoD Food Sites

Private Sector

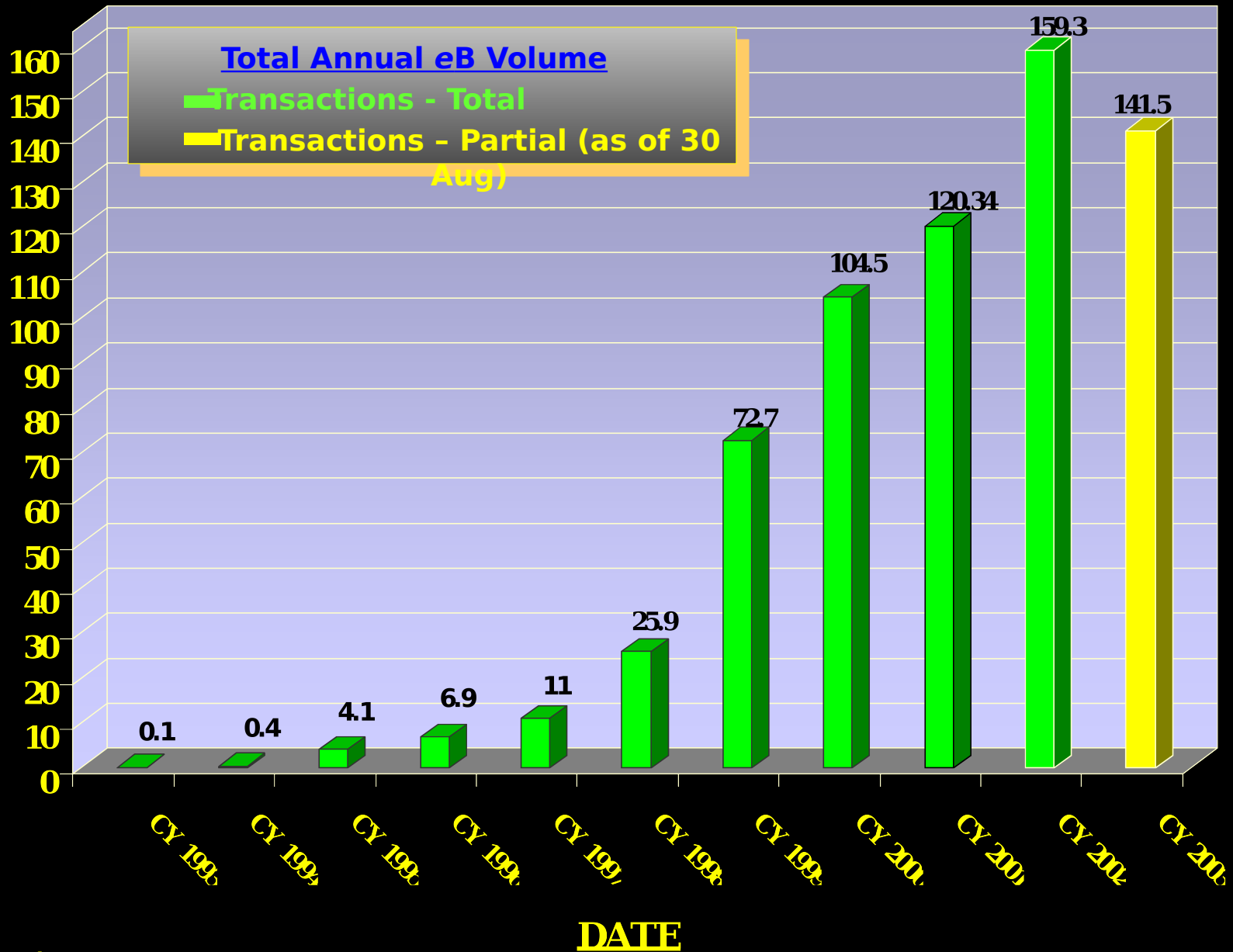**DAASC SUPPORT TO GOVERNMENTAL *e*BUSINESS**
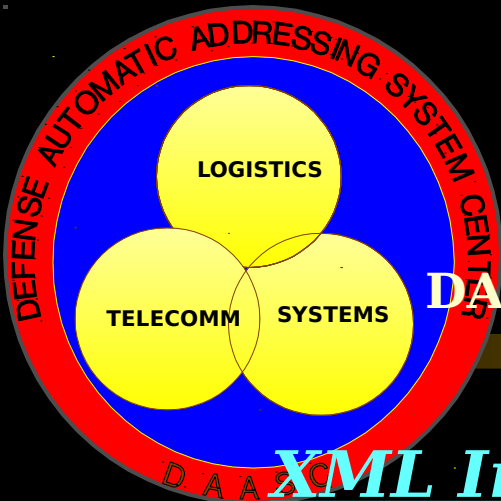**DAASC *e*B Services:**

eB SERVICES BRIEFING

1. **Standard sorting, routing, and delivery by X12 ISA and GSA envelope segments**
2. **Customized sorting/grouping and delivery of documents, for special programs and projects, by X12 document type, VAN, TP, prime vendor, or DoD activity**
3. **Delivery by TCP/IP (FTP/SMTP), MQ-Series, HTTPS, and dial- (Async/Bisync/PPP) modem protocols.**
4. **Full auditing and archiving functions with data on-line for 30 days and archived for at least 2 years.**
5. **X12, MILS, UDF, IDOC, and XML transaction mapping/ translation and consultation services.**
6. **Recovery and retransmission of documents**
7. **Establishment of new TP agreements and interconnects with VANs.**

DAASC *e*B OPERATIONAL STATUS:
(Annual Volume CY 1993 - 2003)

(Millions)
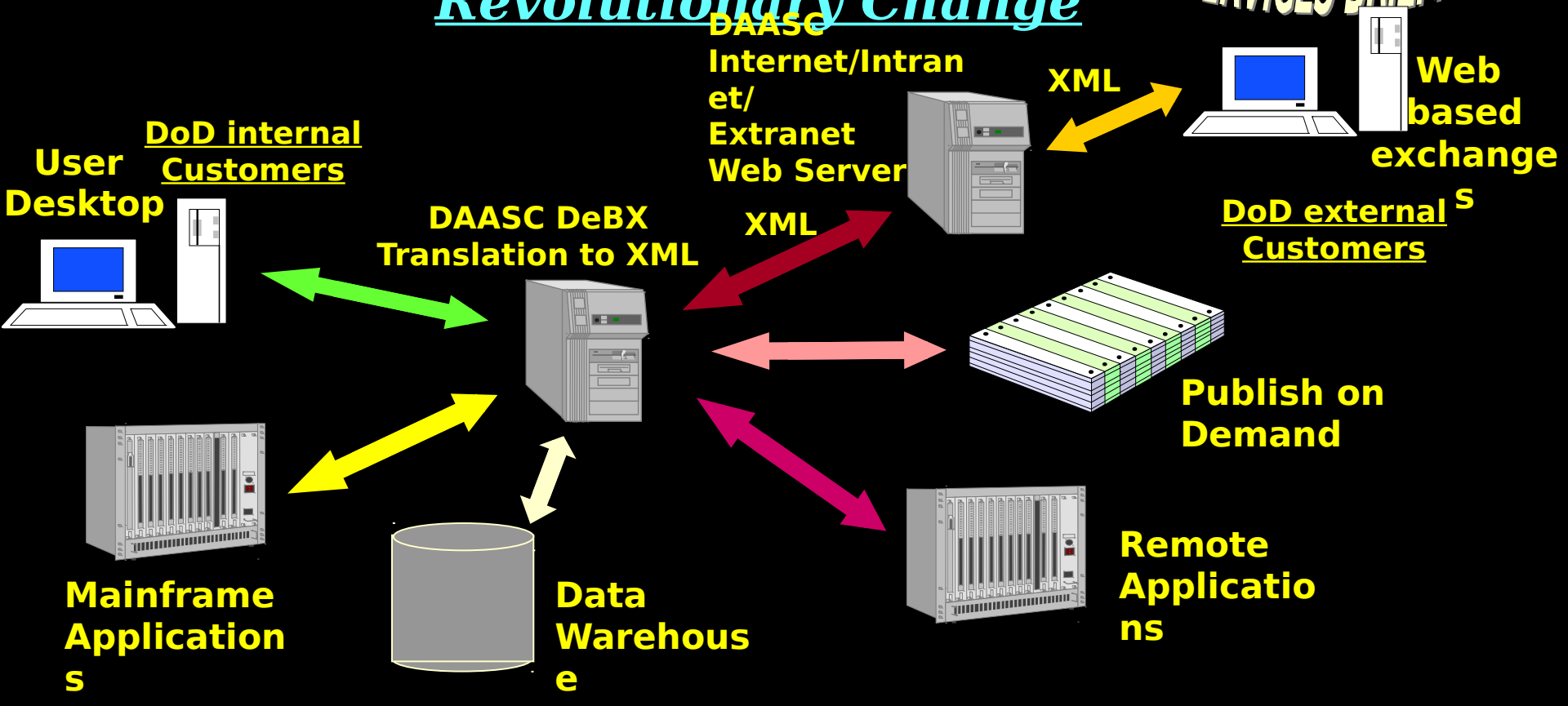
Total Annual *e*B Volume
- Transactions - Total
- Transactions – Partial (as of 30 Aug)

Value
0.1
0.4
4.1
6.9
11
25.9
72.7
104.5
120.34
159.3
141.5

CY 1993, CY 1994, CY 1995, CY 1996, CY 1997, CY 1998, CY 1999, CY 2000, CY 2001, CY 2002, CY 2003

DATE

(3 Sep 2003)

DAASC XML TRANSLATION/PROCESSING CAPABILITIES

XML Interoperability Drives Revolutionary Change

eB SERVICES BRIEFING

DAASC Internet/Intranet/ Extranet Web Server

XML

Web based exchanges

User Desktop

DoD internal Customers

DAASC DeBX Translation to XML

XML

DoD external Customers

Publish on Demand

Mainframe Applications

Data Warehouse

Remote Applications
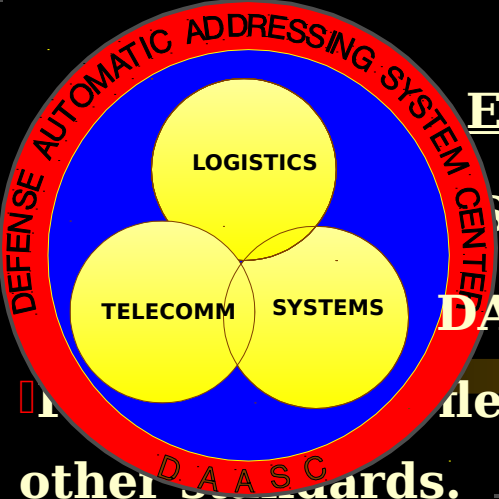
Extensible Markup Language (XML)

- SGML (Standardized General Markup Language)
- DAASC XML TRANSLATION/PROCESSING CAPABILITIES

More flexible and human readable format than X12 and other standards.

DLA/DLMSO strongly supporting development of XML schemas and implementation
of XML standard for DoD.

DLMSO has developed 54 DLMS schemas, using EDIFECS SpecBuilder tool, and
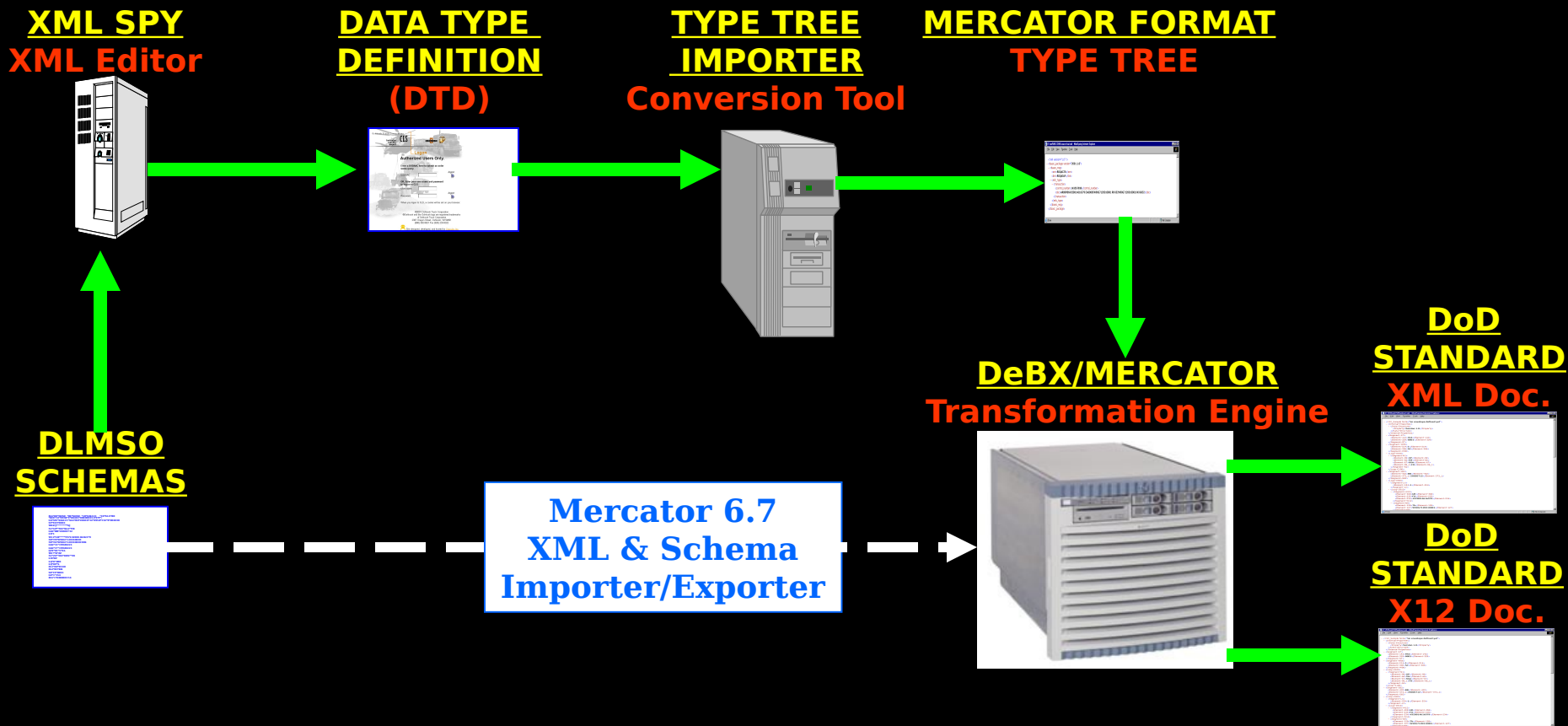placed in DLIS data repository.

 DAASC building approved schemas/maps into Mercator translator. 140B, 188B, 527R,
856S, and 945A ICs completed. Approx. 2 weeks per IC to develop and test.

DLMSO participating/supporting various industry groups (ASC X12 XML Workgroup,
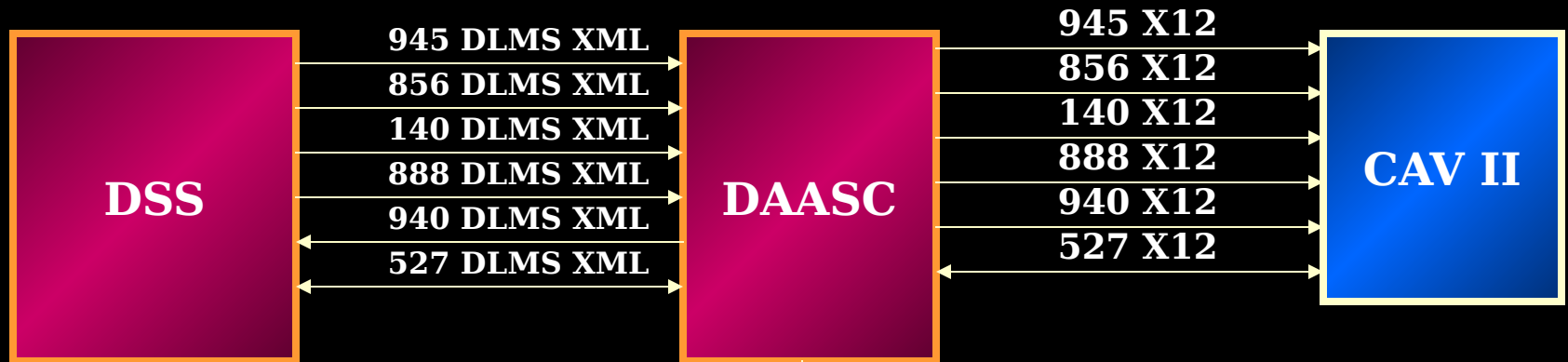Federal CIO XML Workgroup, and DISA Namespace Manager & Repositories).

DAASC XML TRANSLATION/PROCESSING CAPABILITIES
DAASC XML MAP DEVELOPMENT PROCESS

XML SPY
XML Editor

DATA TYPE DEFINITION
(DTD)

TYPE TREE IMPORTER
Conversion Tool

MERCATOR FORMAT
TYPE TREE

DoD STANDARD XML Doc.

DeBX/MERCATOR
Transformation Engine

DLMSO SCHEMAS

Mercator 6.7 XML & Schema Importer/Exporter

DoD STANDARD X12 Doc.

DAASC *e*B INITIATIVES/XML CUSTOMERS:

UIT SERIAL NUMBER TRACKING

DSS

945 DLMS XML
856 DLMS XML
140 DLMS XML
888 DLMS XML
940 DLMS XML
527 DLMS XML

DAASC

945 X12
856 X12
140 X12
888 X12
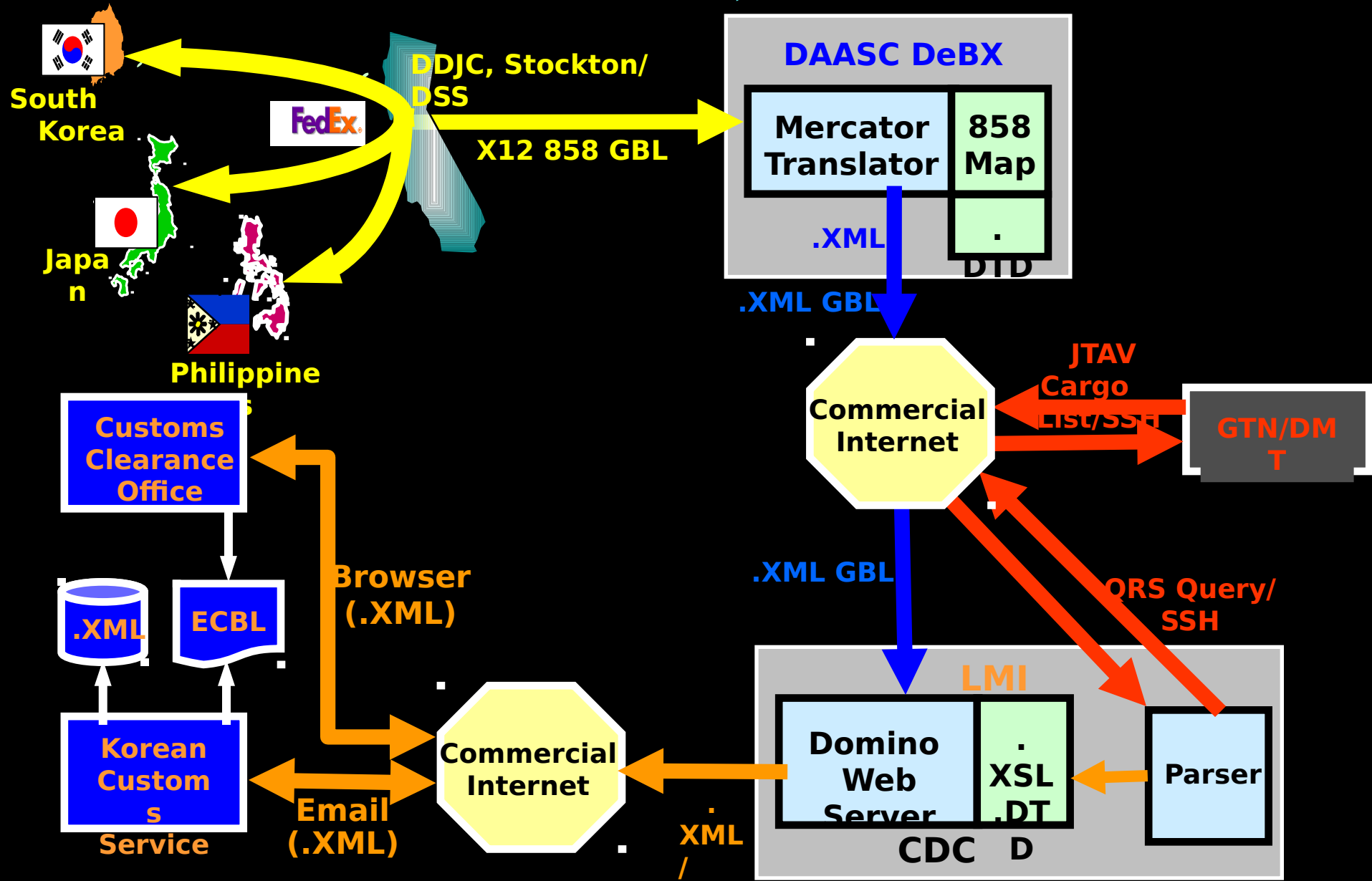940 X12
527 X12
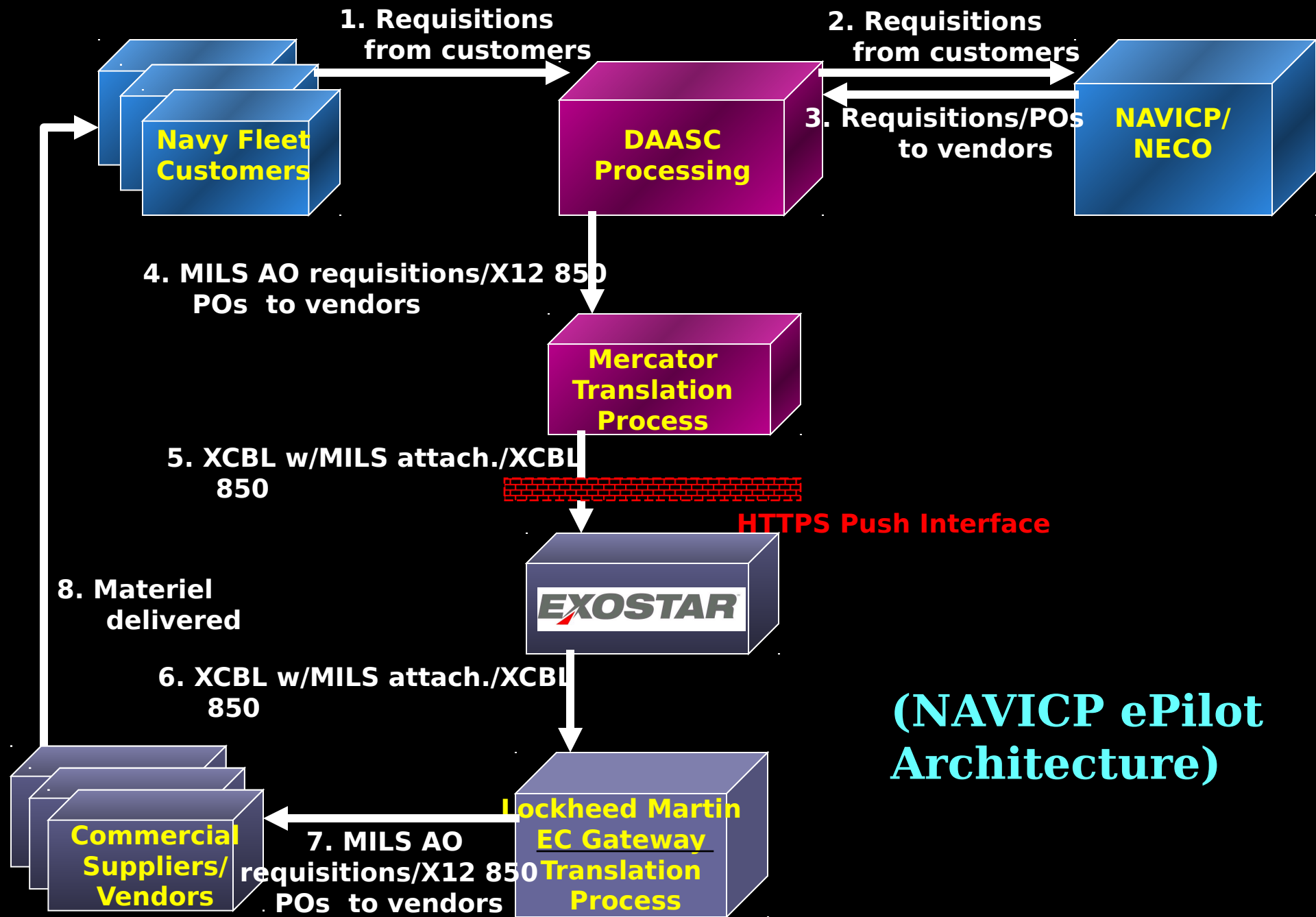
CAV II

MILS, AR0, AS_, A5_, D4/D6, DU/DW, DRA

UIT Transactions contain additional
Data Elements that do no translate to MILS.
These Data Elements Consist of Serial Numbers
For each item as well as Manufacturer info and
Relevant dates.

SERVICES

DAASC *e*B INITIATIVES/XML CUSTOMERS:
(TRANSCOM/LMI/DAASC KOREAN CUSTOMS INITIATIVE)

South Korea

Japan

Philippines

DDJC, Stockton/DSS

FedEx

X12 858 GBL

DAASC DeBX

Mercator Translator | 858 Map

.XML

. DTD

.XML GBL

Commercial Internet

JTAV Cargo List/SSH

GTN/DMT

Customs Clearance Office

Browser (.XML)

.XML GBL

QRS Query/ SSH

.XML   ECBL

Korean Customs Service

Email (.XML)

Commercial Internet

. XML/

LMI

Domino Web Server | . XSL .DT

CDC   D

Parser

DAASC *e*B INITIATIVES/XML CUSTOMERS:

1. Requisitions from customers

2. Requisitions from customers

3. Requisitions/POs to vendors

Navy Fleet Customers

DAASC Processing

NAVICP/ NECO

4. MILS AO requisitions/X12 850 POs to vendors

Mercator Translation Process

5. XCBL w/MILS attach./XCBL 850

HTTPS Push Interface

EXOSTAR

8. Materiel delivered

6. XCBL w/MILS attach./XCBL 850

(NAVICP ePilot Architecture)

Commercial Suppliers/ Vendors

7. MILS AO requisitions/X12 850 POs to vendors

Lockheed Martin EC Gateway Translation Process

DAASC *e*B INITIATIVES/CUSTOMERS:
DLIS/DISA/DAASC CCR DATA ebXML to X12 TRANSLATION

**DLIS
Centralized
Contractor
Registration
(CCR)
System**

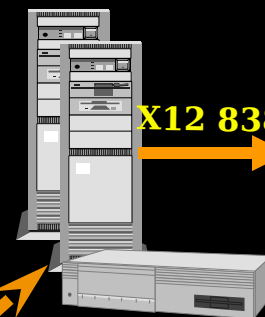**DISA - Columbus
DoD eBusiness
eXchange
(DeBX)**

CCR Web Interface
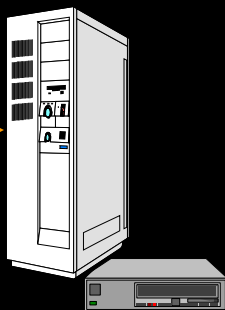
X12 838
Customers

**New Vendors/
Contractors**

ASC X12 838 V4010

**Updates TP
Connections**

ebXML

**Mercator
Transl;ation**

**DAASC DeBX
eB Gateway**

DLA Integrated Data Environment

Commercial *eBusiness* Standards for Logistics
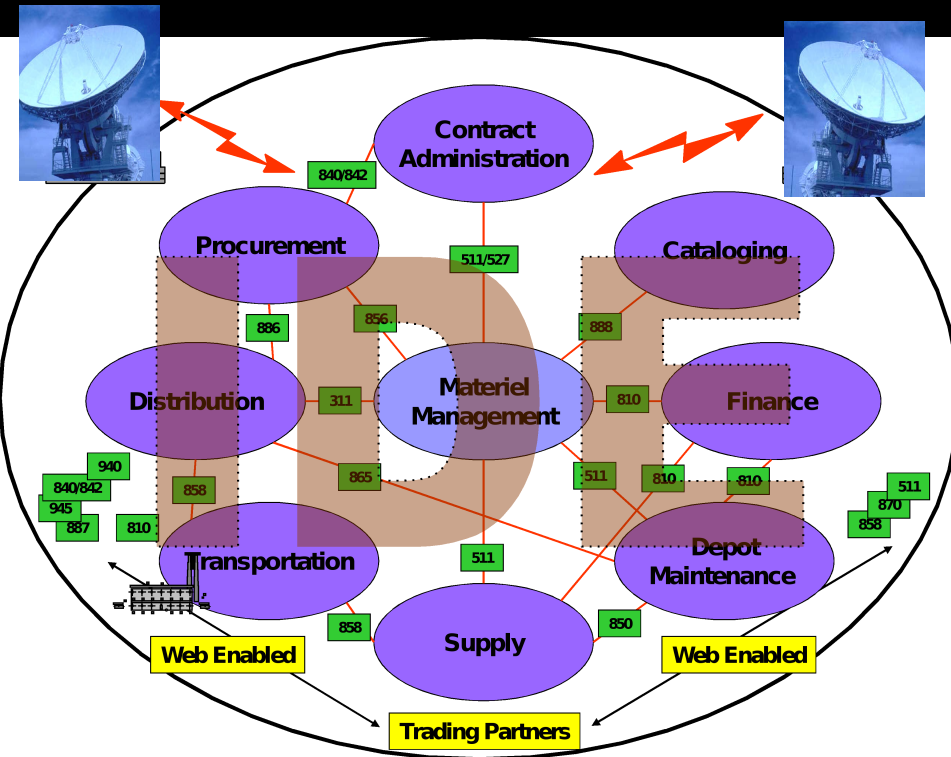
...the IDE environment – X12/XML/IDOC...

• **Links finance, procurement, civil agencies, cataloging, maintenance, supply, transportation, distribution, material management...facilitates architectural interface**
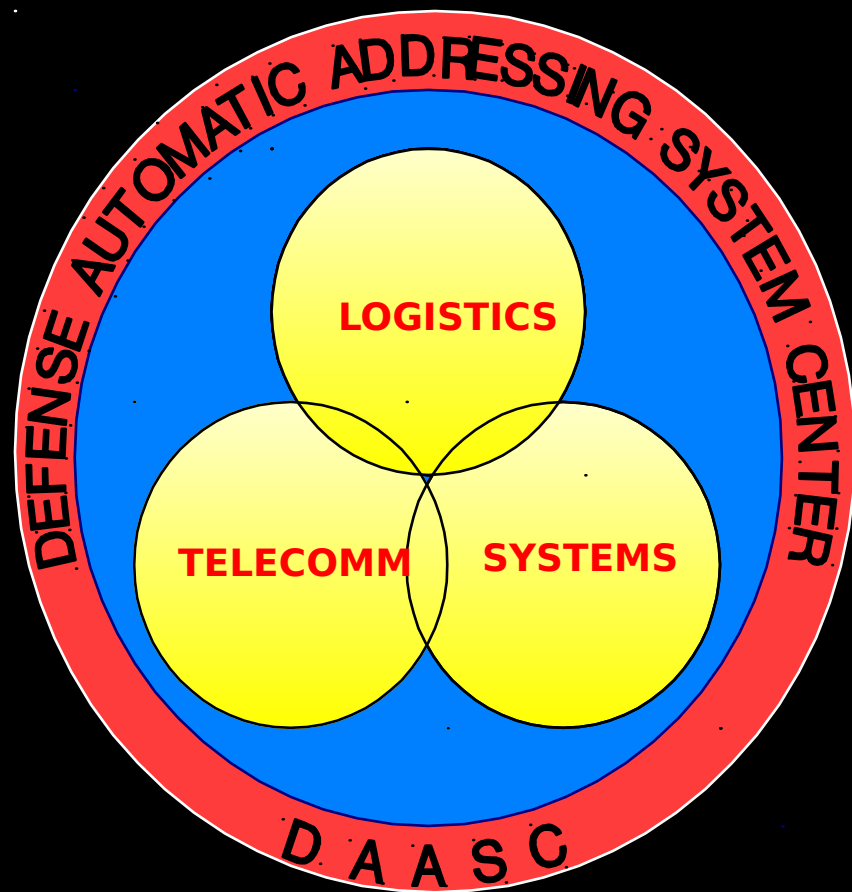
• **Standards mirror 95% of Fortune 500 companies...facilitates DoD logistics trading exchange**

• **Mandates reengineering (e.g., facilitates adopting commercial practices w/COTS (software) (third party logistics support) allows the Components to modernize at their own pace**

• **Facilitates eBusiness...e.g., full**

• *Links warfighter to commercial sector*
• *Responsive to new process opportunities*
• *Facilitates adoption of commercial practices*
• *Key to ERP success*

Gateway to DoD Logistics Goals